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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,743	06/24/2003	Roman Royer	303.856US1	7705
7590	12/16/2004			EXAMINER LUU, PHO M
Schwegman, Lundberg, Woessner & Kluth, P.A. Attn: Viet V. Tong P.O. Box 2938 Minneapolis, MN 55402			ART UNIT 2824	PAPER NUMBER

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

17n

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/608,743	ROYER, ROMAN	
	Examiner	Art Unit	
	Pho M Luu	2824	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

- 4) Claim(s) 1-50 is/are pending in the application.
  - 4a) Of the above claim(s) 51-85 is/are withdrawn from consideration.
- 5) Claim(s) 6-50 is/are allowed.
- 6) Claim(s) 1 and 2 is/are rejected.
- 7) Claim(s) 3-5 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 24 June 2003 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 03/03/04.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: Search History.

**DETAILED ACTION**

***Reply to Election/Restrictions***

1. Applicant's election without traverse of Group I, Claims 1-50 filed 26 October 2004 is acknowledged. The changes and remarks disclosed therein were considered.
2. Claims 51-85 have been canceled.
3. Claims 1-50 are pending in the application.

***Information Disclosure Statement***

4. Acknowledgment is made of applicant's Information Disclosure Statement (IDS) Form PTO-1449, filed 03 March 2004. The information disclosed therein was considered.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogawa. (US. 5,295,254).

Regarding claim 1, Ogawa in Figure 1 and Figure 6 discloses a device (DRAM, Figure 1, see column 1, lines 10-13; Figure 6, column 3, lines 59-62) comprising:

a memory array (5UC, 5LC, a memory cell array at high and low cell array in Figure 6);

a first data path (7U such as bit line group constituting data transfer paths between 5UC and 61) connected to the memory array for transferring data at a first speed (see column 4, lines 2-5);

a second data path (7L such as bit line group constituting data transfer paths between 5LC and 62) connected to the memory array for transferring data at a second speed (see column 4, lines 6-9).

With respect to claim 2, Ogawa in Figure 6 disclosed the first and second data path is a bi-directional data path (transfer gate 8 are insert into the first data path 7U and second data path 7L, see column 4, lines 10-12).

### ***Allowable Subject Matter***

7. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 3, the prior art of record do not disclose or suggest a strobe transceiver circuit connected to the first and second data path for transferring data.

9. Claims 6-50 is allowed.

The following is an examiner's statement of reasons for allowance:

There is no teaching or suggestion in the prior art to: "a plurality of strobe transceivers connected to the first and second data path for transferring data to the first and second at the first and second speed" as claimed in the independent claim 6; or

"a plurality write strobe transceivers connected to the first and second data paths for receiving data from the first data path in a test mode and for providing write strobe signals to the second data path in one of the test mode and a normal mode" as claimed in the independent claim 12; or

"a path selector connected between the memory array and the first and second bi-directional data paths for selecting one of the first and second bi-directional data paths for transferring data between the memory array and one of the first and second bi-directional data path" as claimed in the independent claim 26; or

"a third group of transceivers, each having an input circuit connected to the second data path and an output circuit connected to the second data path" as claimed in the independent claim 36; or

"a plurality of transceiver connected to the first and second data paths" as claimed in the independent claim 45.

***Conclusion***

10. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Pho M. Luu whose telephone number is 571.272.1876. The examiner can normally be reached on M-F 8:00AM – 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Richard Elms, can be reached on 571.272.1869. The official fax number for the organization where this application or proceeding is assigned is 703.872.9306 for all official communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PML  
10 December 2004



MICHAEL S. LEBENTRITT  
PRIMARY EXAMINER